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CPY - OKUR

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IC - B27K5/02 ; B27N1/00 ; B29J5/00

MC - F05-B

PA - (OKUR ) OKURA IND CO LTD

PN - JP59033133 A 19840222 DW198417 006pp

- JP3037490B B 19910605 DW199126 000pp

PR - JP19820142710 19820819

XA - C1984-043778

XIC - B27K-005/02 ; B27N-001/00 ; B29J-005/00

AB - J59033133 Dried wood particles (wood chips, wood meal, sawdust, etc.) are reacted with polybasic acid anhydride, at not lower than 60 deg. C without using solvent, to introduce -COOH functionality into the wood tissue by esterifying -OH gps. in the wood. Used for introducing -COOH into cellulose-, hemicellulose- and lignin molecules in fine wood particles. Reaction proceeds in solid phase without solvent and, consequently, the esterified wood can be easily sep'd. from the reaction mixt.

- In an example, 2.01 g dried 24-60 mesh wood meal and 30 g of granular succinic anhydride were reacted with agitation at 100 deg. C for 3 hours. During reaction, succinic anhydride (m. pt. 119-120 deg. C) was not melted. The esterified wood meal was then washed with acetone, air-dried, and dried with hot air to obtain 2.51 g of the esterified wood meal. Addn. of a small amt. of alkali (e.g., Na<sub>2</sub>CO<sub>3</sub>) increased degree of esterification.(0/0)

IW - ESTERIFICATION WOOD PREPARATION REACT DRY WOOD PARTICLE POLYBASIC ACID

#### ANHYDRIDE SOLVENT

IKW - ESTERIFICATION WOOD PREPARATION REACT DRY WOOD PARTICLE POLYBASIC ACID

#### ANHYDRIDE SOLVENT

NC - 001

OPD - 1982-08-19

ORD - 1984-02-22

PAW - (OKUR ) OKURA IND CO LTD

TI - Esterified wood prepn. - by reacting dried wood particles with polybasic acid anhydride without solvent